BRYSTON

MPS2

POWER SUPPLY
OWNER'S MANUAL

For use with preamp models

BP26, BP26DA, BP26MC, BP26P & BP1.5

and 10B-EPS crossovers

IMPORTANT SAFETY INSTRUCTIONS

The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage " within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.
TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.
THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

BRYSTON LIMITED WARRANTY

Bryston analog audio circuits are warranted to be free from manufacturing defects for twenty (20) years from the original date of manufacture. The warranty includes parts and labour.
Bryston Digital circuits and cables are warranted for five years from the original date of manufacture. The warranty includes parts and labour.
Bryston products having motorized moving parts, excluding motorized volume controls, are warranted for three years from the original date of manufacture. The warranty includes parts and labour.
Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance. Bryston will pay shipping costs one way (usually the return portion) during the first three years of warranty coverage.
In the event of a defect or malfunction, contact Bryston's repair centers for return authorization. Products must be returned using original packaging material only. Packing material may be purchased from Bryston if necessary. This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Tampering by persons other than factory authorized service personnel or failure to fully comply with Bryston operating instructions voids the warranty. This warranty gives you specific legal rights and you may also have other rights which may vary from province to province and country to country.
As of 2006-02-22 Bryston will only warranty Bryston products purchased through authorized Bryston dealers. Bryston products with a date code of 0608 or higher (date code format is "yyww", where "yy" is the two least significant digits of the year and "ww" is the week of the year) must be accompanied by a copy of the bill-of-sale from a Bryston authorized dealer to qualify for warranty service. The warranty is transferable from the original owner to a subsequent owner as long as a copy of the bill-of-sale from the original authorized Bryston dealer accompanies the re-sale. The copy of the bill of sale to any subsequent owner need ONLY include the Name of the Bryston Authorized Dealer and the Model and Serial number of the Bryston product The warranty will only be honored in the country of the original purchase unless otherwise pre-authorized by Bryston.

BRYSTON SERVICE in CANADA:

Postal address: **P.O. BOX 2170, Stn. Main**
PETERBOROUGH, ONTARIO
CANADA K9J 7Y4

Courier address: **677 NEAL DRIVE**
PETERBOROUGH, ONTARIO
CANADA K9J 6X7

PHONE: 705-742-5325
FAX: 705-742-0882
E-mail: cdnser@bryston.ca

BRYSTON SERVICE in the USA:

79 COVENTRY ST., Suite 5
NEWPORT, VERMONT
U.S.A. 05855-2100

PHONE: 802-334-1201
FAX: 802-334-6658
E-mail: usaser@bryston.ca

BRYSTON SERVICE outside Canada and the USA:

contact your local distributor *or*

CHECK OUR WEB SITE: www.bryston.ca
E-MAIL BRYSTON DIRECTLY: cdnser@bryston.ca
FAX BRYSTON DIRECTLY: 01-705-742-0882
PHONE BRYSTON DIRECTLY: 01-705-742-5325

INTRODUCTION

Thank you for choosing this Bryston product. Bryston welcomes any suggestions or comments you may have about our products. We consider you, our customer, to be Bryston's most important resource, and your opinion is very much appreciated.

MPS2 POWER SUPPLY SPECIFICATIONS:

Dimensions: 17" (or 19") x 2.25" x 11"
Weight: actual: 15.5 lb. (7.03Kg)
shipping: 19.3 lb. (8.75Kg)

Electrical: 100V~/50-60Hz/100W
110V~/50-60Hz/100W
120V~/50-60Hz/100W
200V~/50-60Hz/100W
220V~/50-60Hz/100W
230V~/50-60Hz/100W
240V~/50-60Hz/100W

Outputs: main outputs: ±37V/250mA ⎓
+12V/350mA ⎓
remote or switched trigger outputs:
12v @ ≤20mA ⎓

GENERAL DESCRIPTION

The MPS2 outboard power supply provides bipolar DC power for the various Bryston preamps and cross-overs, including the BP26 series of preamps, the BP1.5 Phono equalization stage and 10B crossovers specifically designed to be used with external power supplies (10B-LR-EPS, 10B-STD-EPS & 10B-SUB-EPS) .

The MPS2's power ON/OFF switch is a toggle switch is located on the front panel along with a green LED to indicate power ON.

REMOTE ON/OFF FUNCTIONS

When the MPS2 is turned on, any BP26 preamps, or other Bryston products connected to its 4 main outputs, will also be turned on. Also, any other equipment connected to the MPS2's *remote trigger* outputs or *switched remote trigger* outputs may also be turned on.

On the rear of the unit there are five 2 pin terminal blocks that provide control signals for remote on/off functions. Plug-in screw adjust terminal blocks are provided for all 5 of these connectors. These terminal blocks accept bare wires between 12 and 26 AWG. Insulated wires should be stripped to expose .3 inches (5/16" or 8mm) of bare wire. Use a small blade screwdriver (<1/8") to open and close the wire cages. Do not overtighten; maximum torque should be 4.5 pound-inches (0.5N-m) or less.

REMOTE ACTIVATION of OTHER EQUIPMENT VIA THE MPS2

To turn on a Bryston amplifier by turning on the MPS2:

1st) Connect insulated wires from the 2 pin REMOTE TRIGGER connector on the rear panel of the MPS2 to the two IN terminals on a Bryston power amplifier remote control connector intended for a 4~14V AC/DC control signal.

2nd) Put the amplifiers "EXTERNAL TURN ON" switch in the **EXTERNAL** position for the amplifier to respond to remote control turn-on signals (see figure 2).

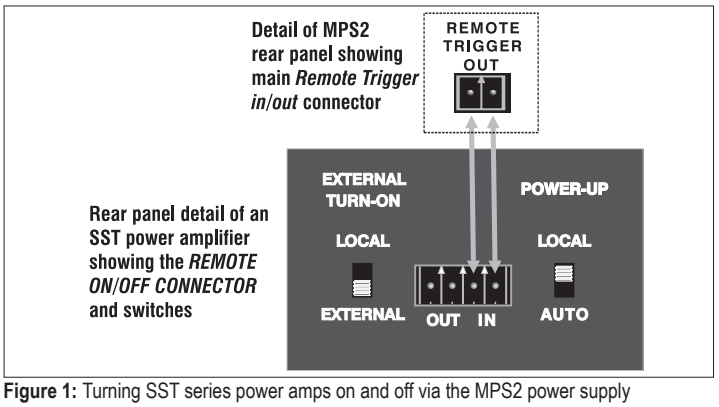


Figure 1: Turning SST series power amps on and off via the MPS2 power supply

To turn a Bryston power amplifier OFF and ON when the BP26 pre-amp is MUTED and unMUTED respectively:

1st) Connect the ***SWITCHED TRIG OUT*** pins of one of the MPS2's 4 outputs to the two **IN** terminals on the power amp's remote control connector.

2nd) Place the power amplifiers **EXTERNAL TURN ON** switch in the **EXTERNAL** position.

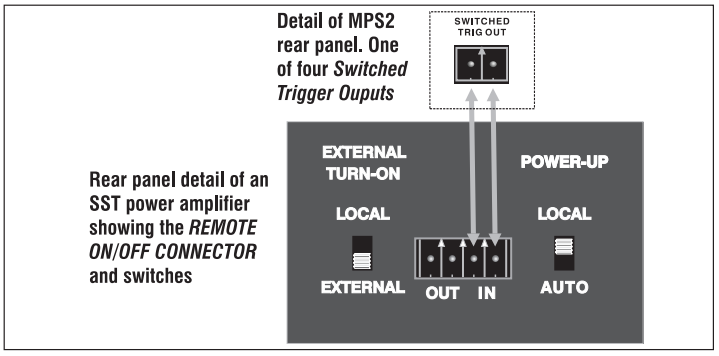
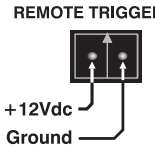
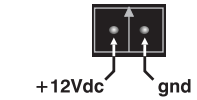


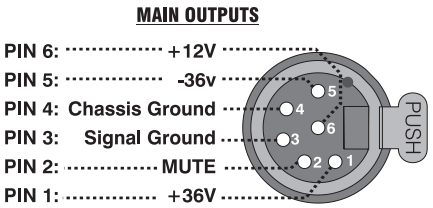
Figure 2: Turning SST series power amps on and off via the BP26 MUTE switch

MPS2 POWER SUPPLY



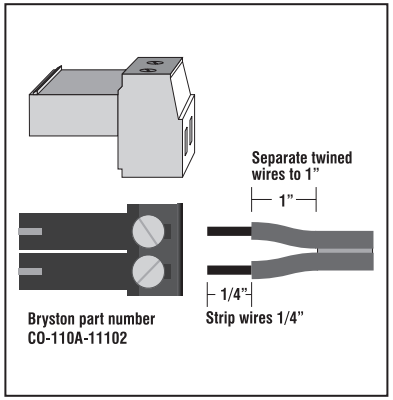






REMOTE TRIGGER OUTput PINS

A 12Vdc signal will be present on the OUT pins of the Remote Trigger Connector whenever the MPS2 is activated. This control signal can be used to operate other equipment with suitable remote control inputs, such as Bryston SST series power amps.



SWITCHED TRIGGER OUTPUTS

Whenever a BP26, which is connected to one of the 4 MPS2 outputs, is turned on and NOT muted, a control signal of 12Vdc will be present on the respecitve SWITCHED TRIGGER OUTPUT pins of the of the MPS2 power supply. This control signal can be used to turn on suitably equipped amplifiers and other equipment.

POWER SUPPLY CORD

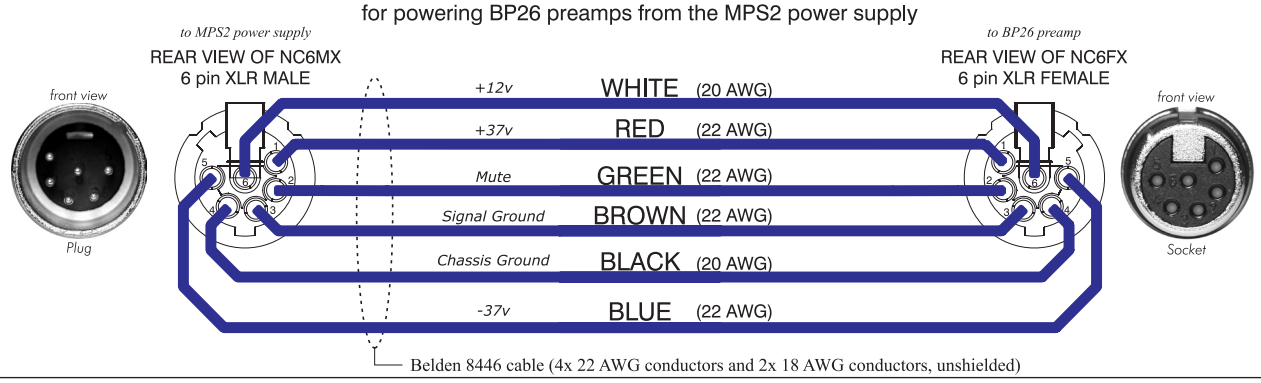
Use only power supply cords supplied by Bryston Ltd. to connect the MPS2 power supply to other Bryston equipment. The MPS2 is not intended to operate any equipment other than specifically designated Bryston preamps, crossovers and other audio processors.

The MPS2 power supply can power several different Bryston products. Different products, however, may require different power supply interconnect cables, such as those shown shown below. It is important to use the correct power supply cable.

WARNING! The connector terminals of main outputs 1, 2, 3 & 4 on the MPS2 power supply rear panel are HAZARDOUS LIVE and present a risk of electric shock. Use only preassembled power interconnect cables provided by Bryston for connection of these terminals.

MPS2-BP26 STANDARD CABLE ASSEMBLY

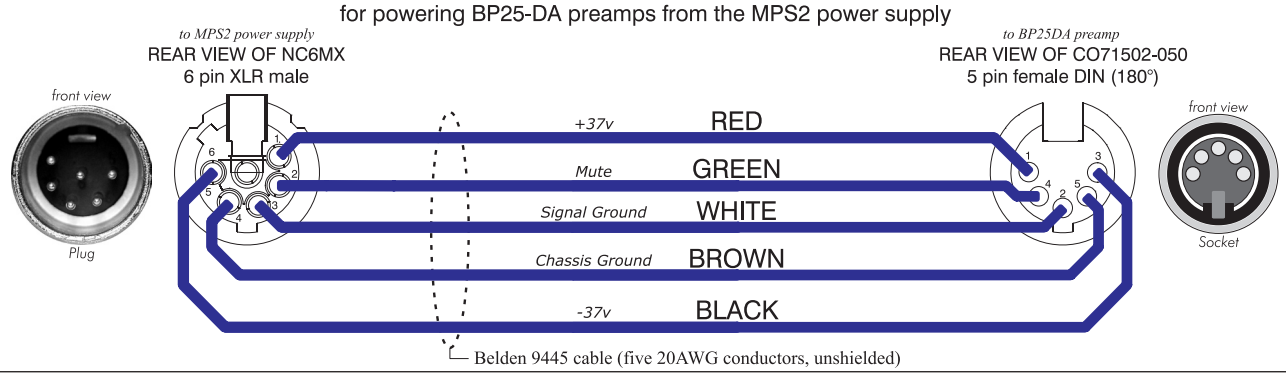
for powering BP26 preamps from the MPS2 power supply



Belden 8446 cable (4x 22 AWG conductors and 2x 18 AWG conductors, unshielded)

MPS2-BP25DA CABLE ASSEMBLY

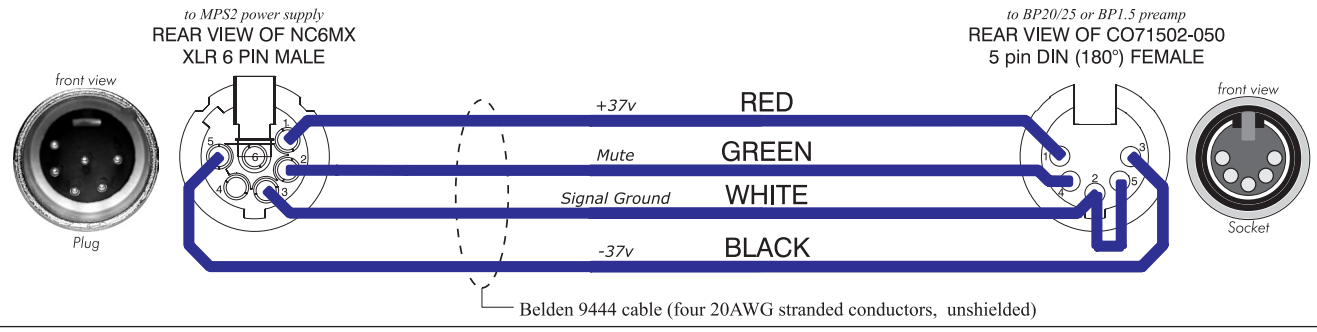
for powering BP25-DA preamps from the MPS2 power supply



Belden 9445 cable (five 20AWG conductors, unshielded)

MPS2-BP20 CABLE ASSEMBLY

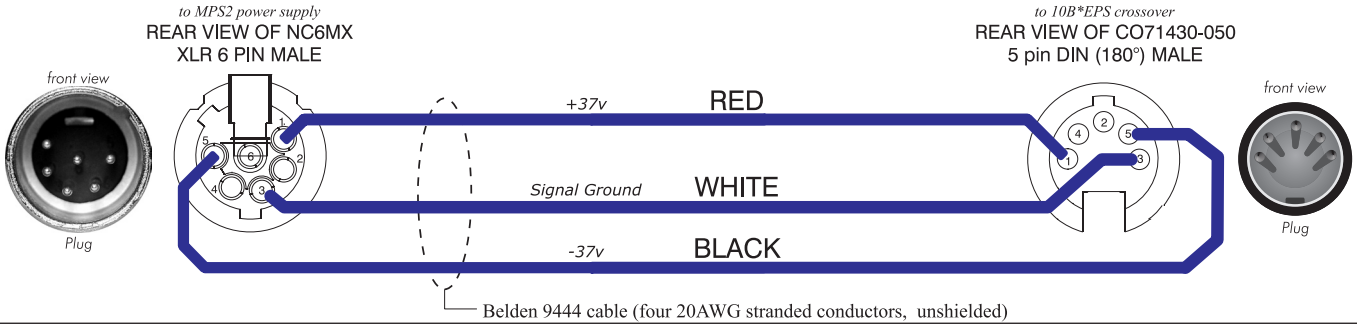
for powering BP20, BP25 & BP1.5 preamps from the MPS2 power supply



Belden 9444 cable (four 20AWG stranded conductors, unshielded)

MPS2-10B CABLE ASSEMBLY

for powering 10B-LR-EPS, 10B-STD-EPS or 10B-SUB-EPS crossovers from the MPS2 power supply



Belden 9444 cable (four 20AWG stranded conductors, unshielded)

REPLACING FUSES IN THE MPS2 POWER SUPPLY



CAUTION: These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

All fuses are 5mm x 20mm, time lag type and are accessible only by removing the top cover. When replacing fuses, disconnect the power cord before opening the unit!

Recommended replacement fuses:

100V~ models:	T 2.5A L 250v	Littlefuse 218 02.5
110V~ models:	T 2.0A L 250v	Littlefuse 218 002
120V~ models:	T 2.0A L 250V	Littlefuse 218 002
200V~ models:	T 1.25A L 250v	Littlefuse 218 1.25
220V~ models:	T 1A L 250v	Littlefuse 218 001
230V~ models:	T 1A L 250v	Littlefuse 218 001
240V~ models:	T 1A L 250v	Littlefuse 218 001